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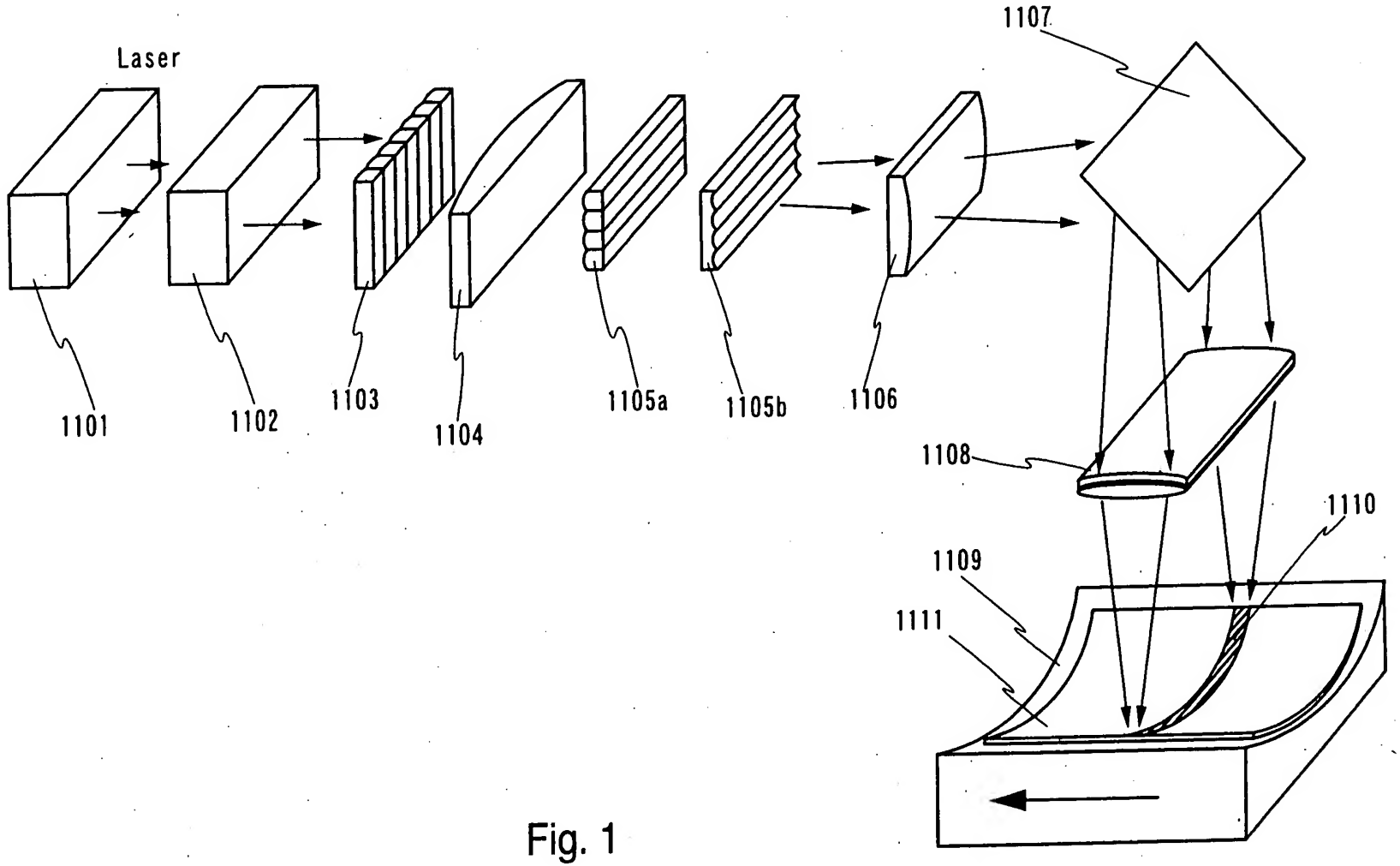

Laser
1101
1102
1103
1104
1105a
1105b
1106
1107
1108
1109
1110
1111

Fig. 1

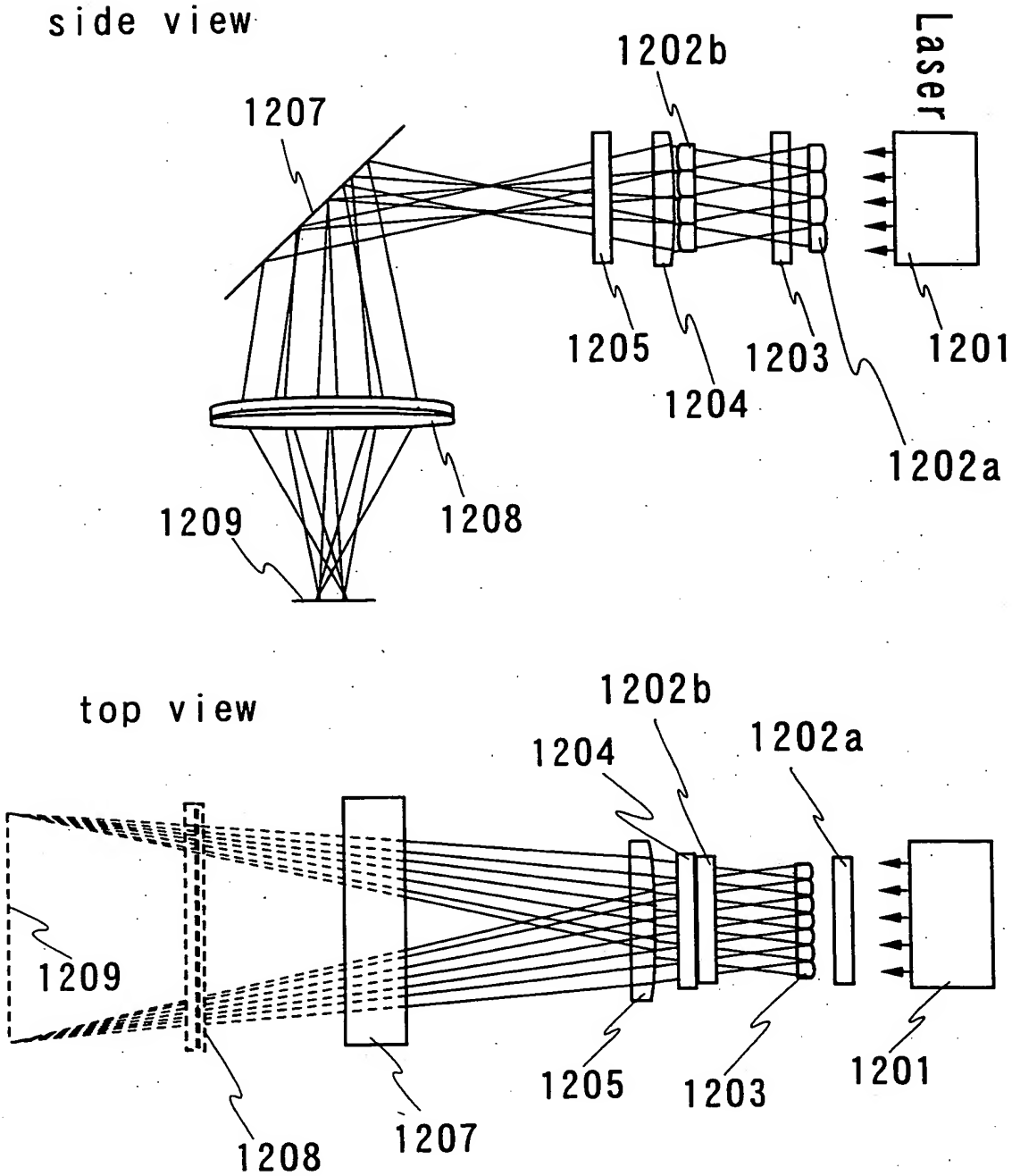

side view
1202b
Laser
1207
1205
1204
1203
1201
1202a
1209
1208
top view
1202b
1204
1202a
1209
1205
1203
1201
1208
1207

Fig. 2

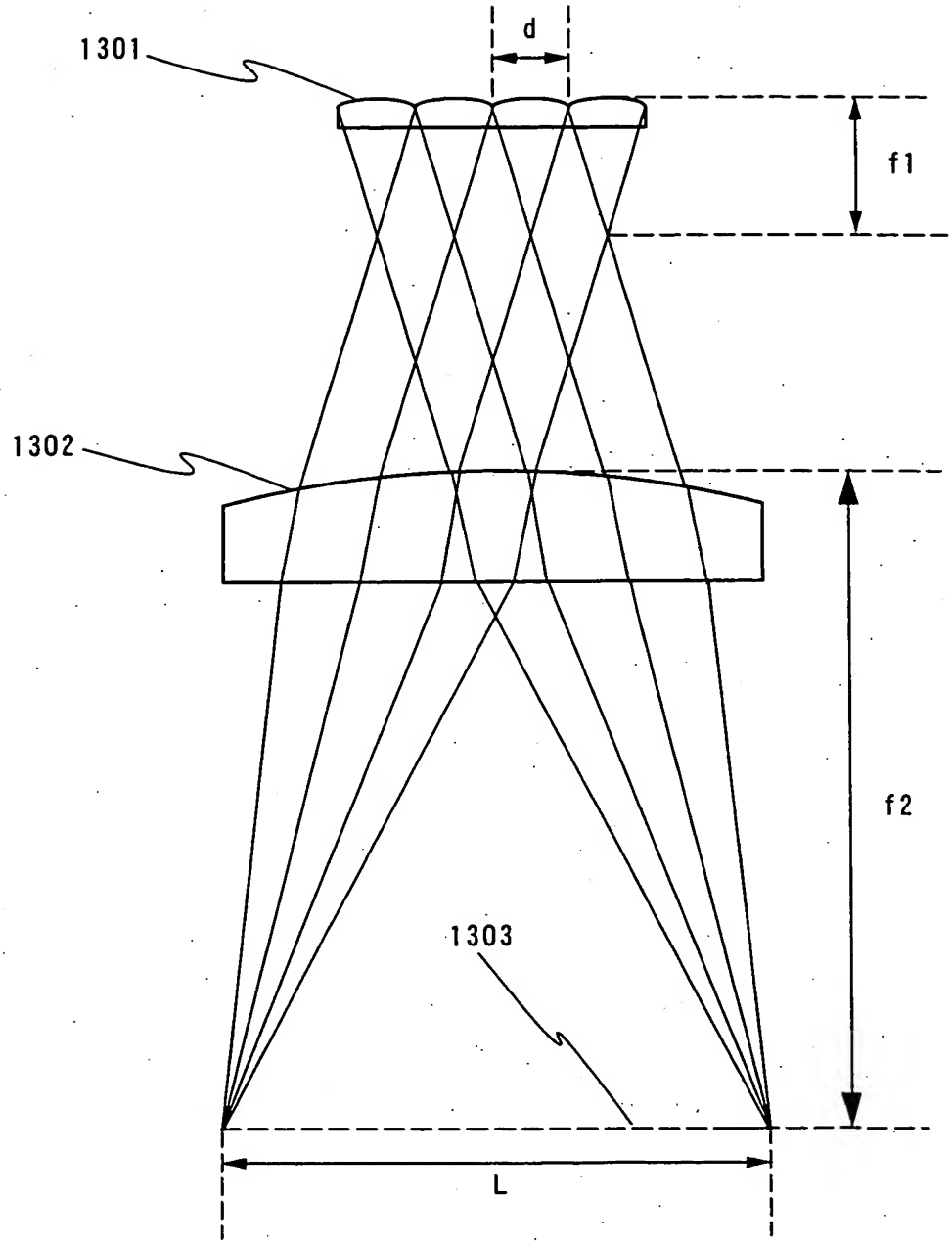


Fig. 3

Fig.4A

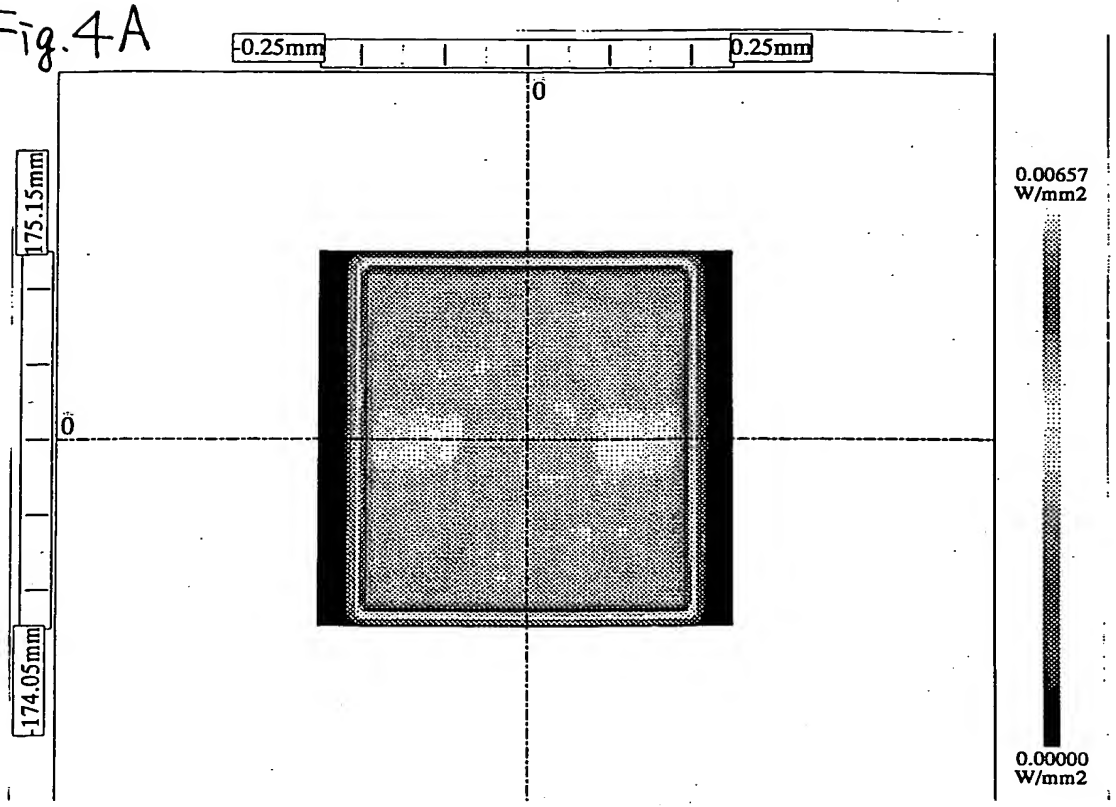

-0.25mm
0.25mm
0
175.15mm
0
-174.05mm
0.00657
W/mm2
0.00000
W/mm2

Fig.4B

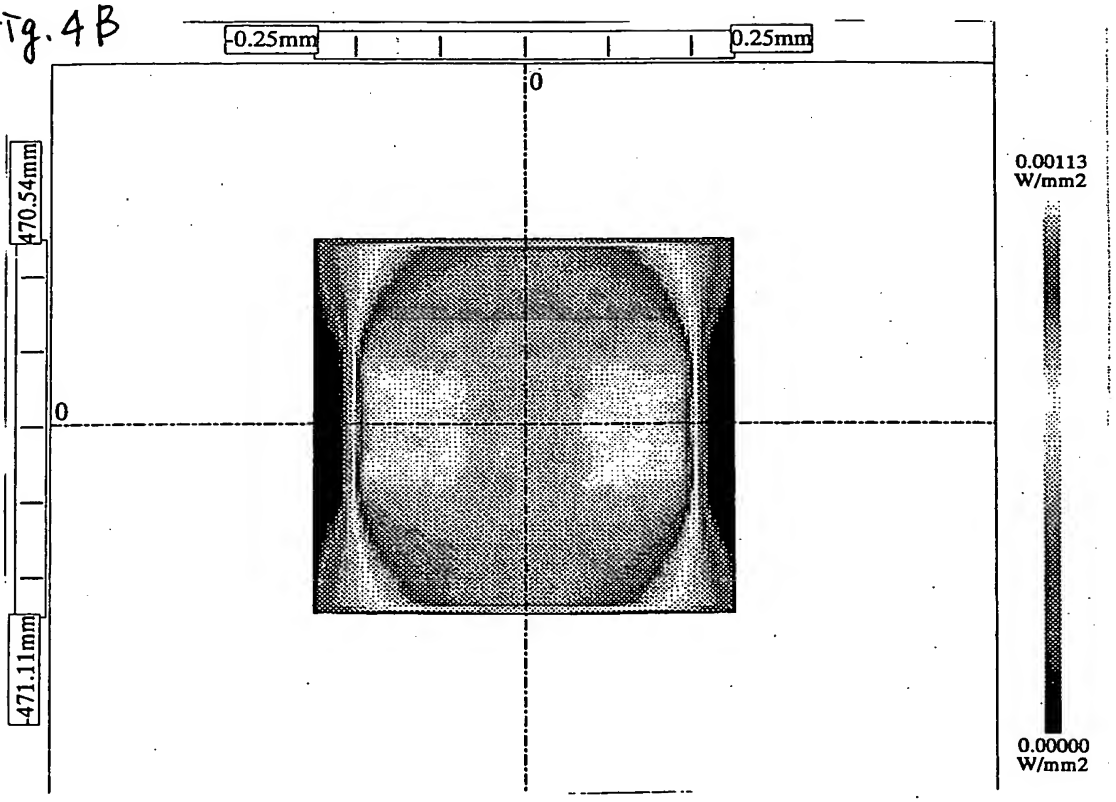

-0.25mm
0.25mm
0
470.54mm
0
-471.11mm
0.00113
W/mm2
0.00000
W/mm2

Fig. 5A

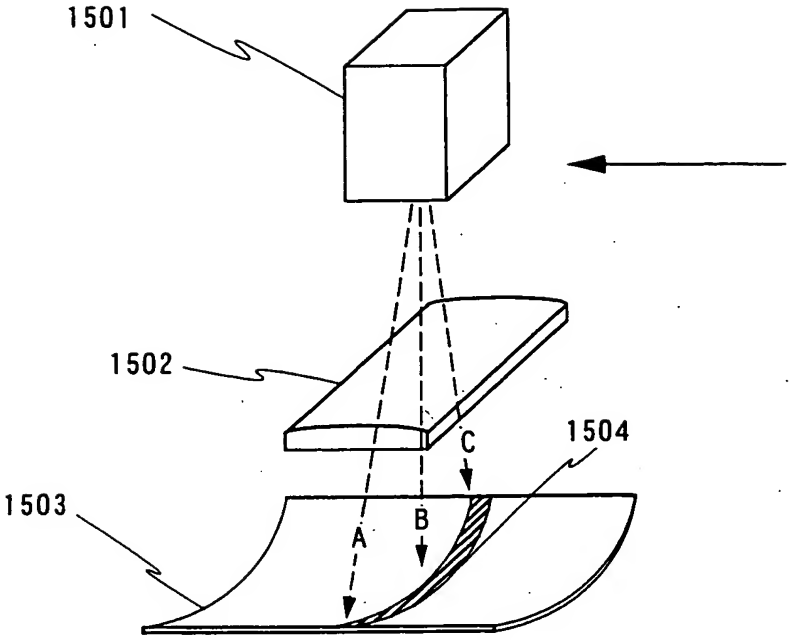
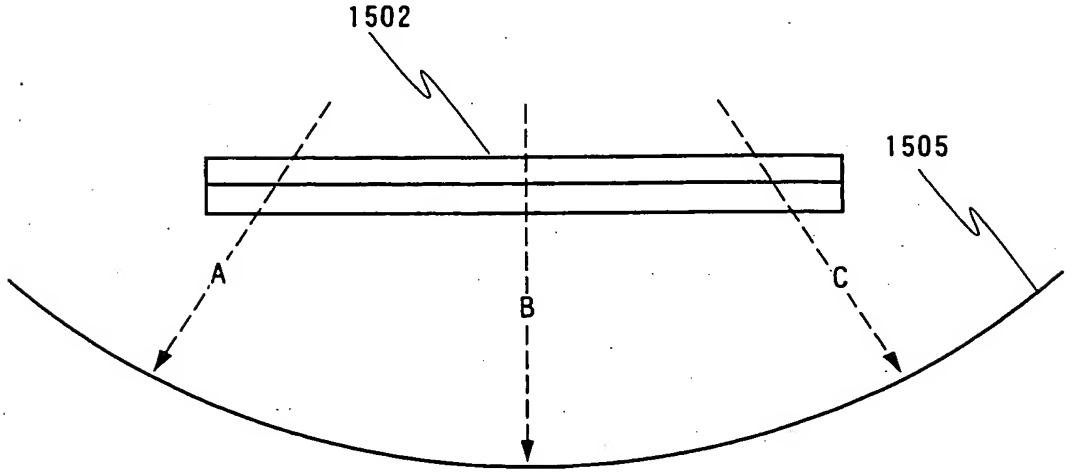


Fig. 5B



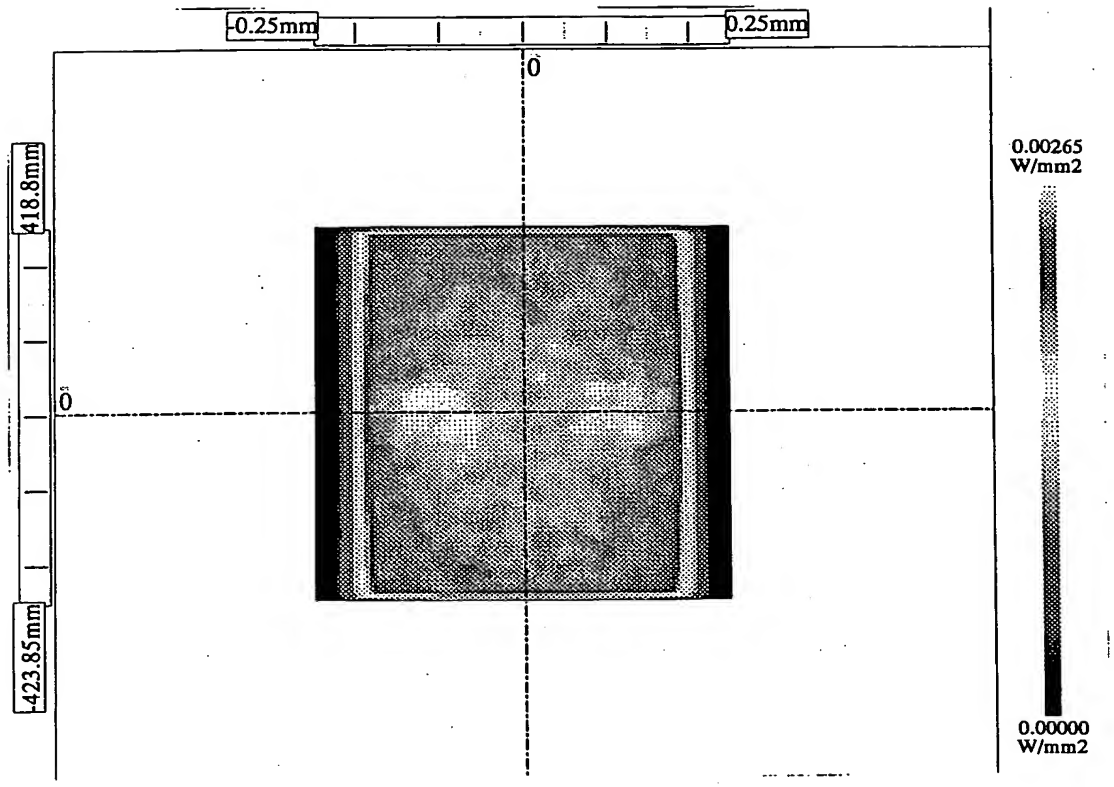


Fig. 6

Fig.7A

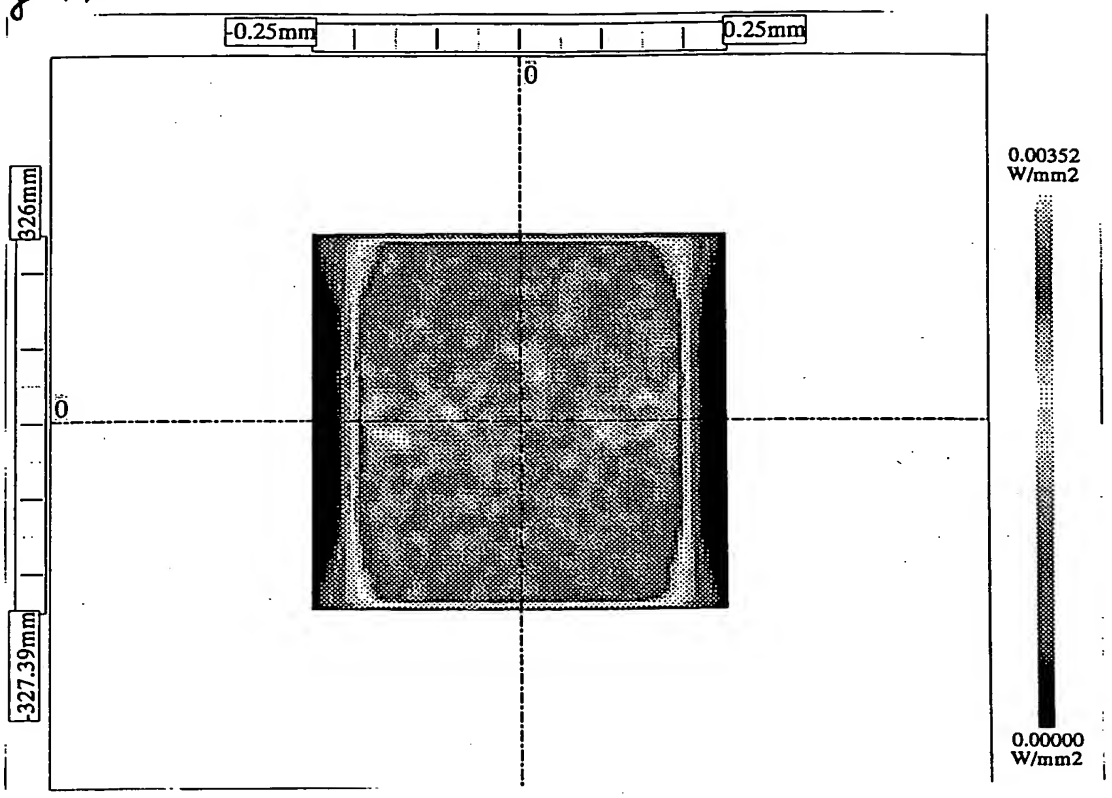
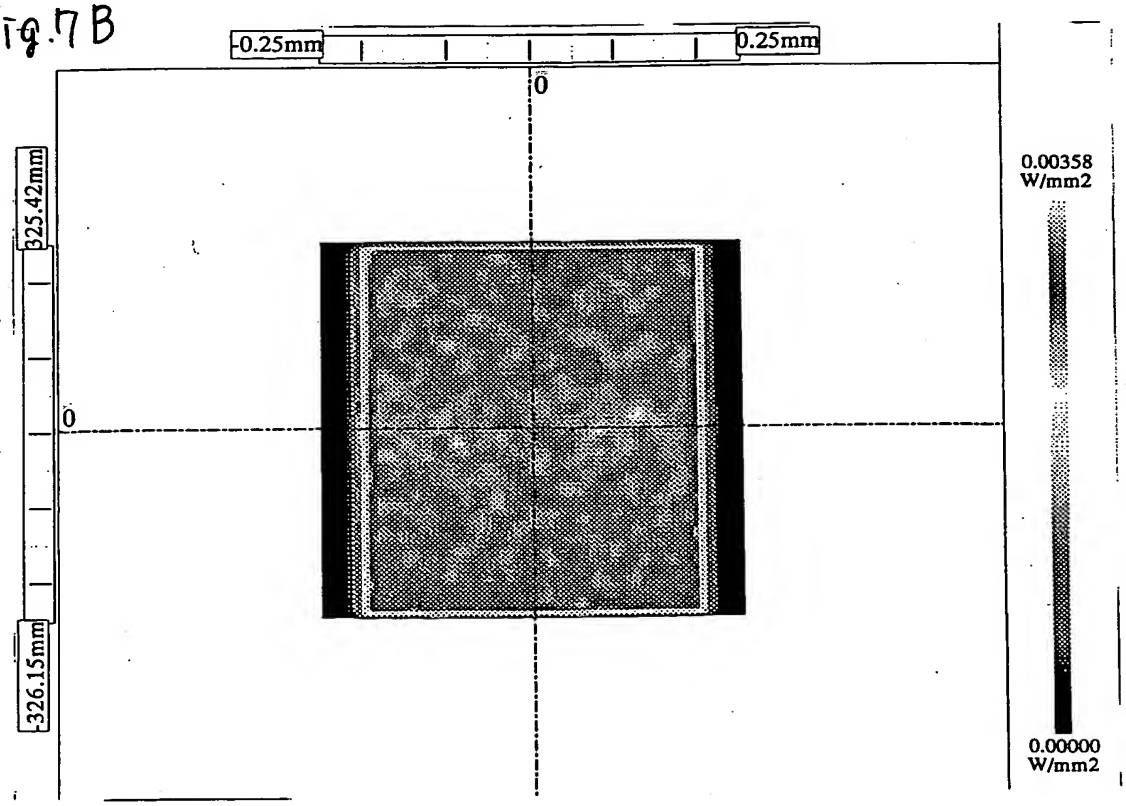

-0.25mm
0.25mm
0
326mm
0
327.39mm
0.00352
W/mm2
0.00000
W/mm2

Fig.7B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0.25mm
0
325.42mm
0
326.15mm
0.00358
W/mm2
0.00000
W/mm2

Fig. 8A

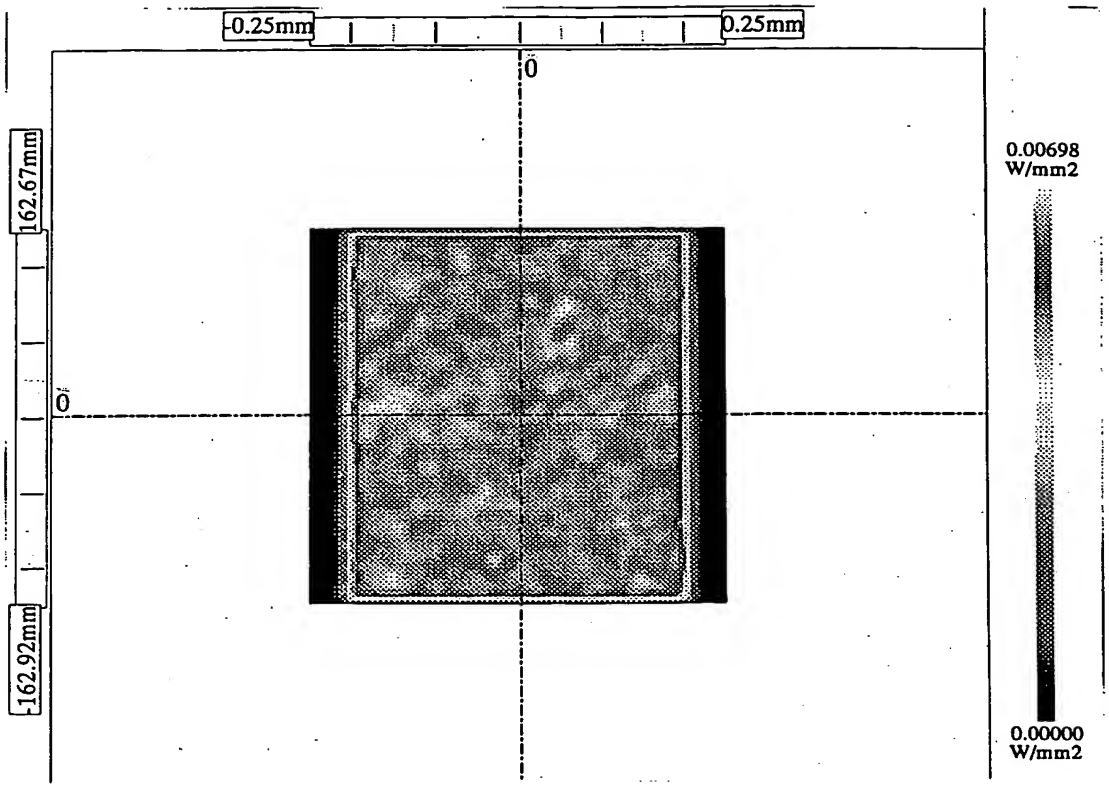
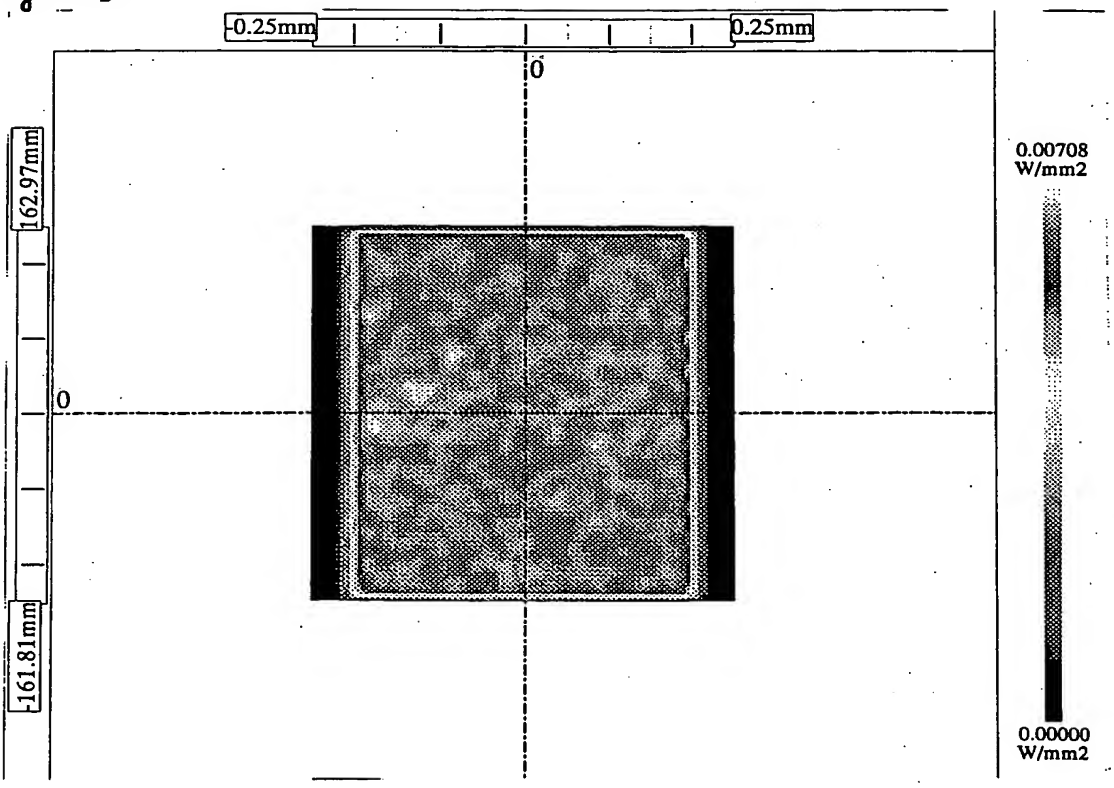

-0.25mm
0.25mm
0
162.67mm
0
-162.92mm
0.00698
W/mm2
0.00000
W/mm2

Fig. 8B


-0.25mm
0.25mm
0
162.97mm
0
-161.81mm
0.00708
W/mm2
0.00000
W/mm2

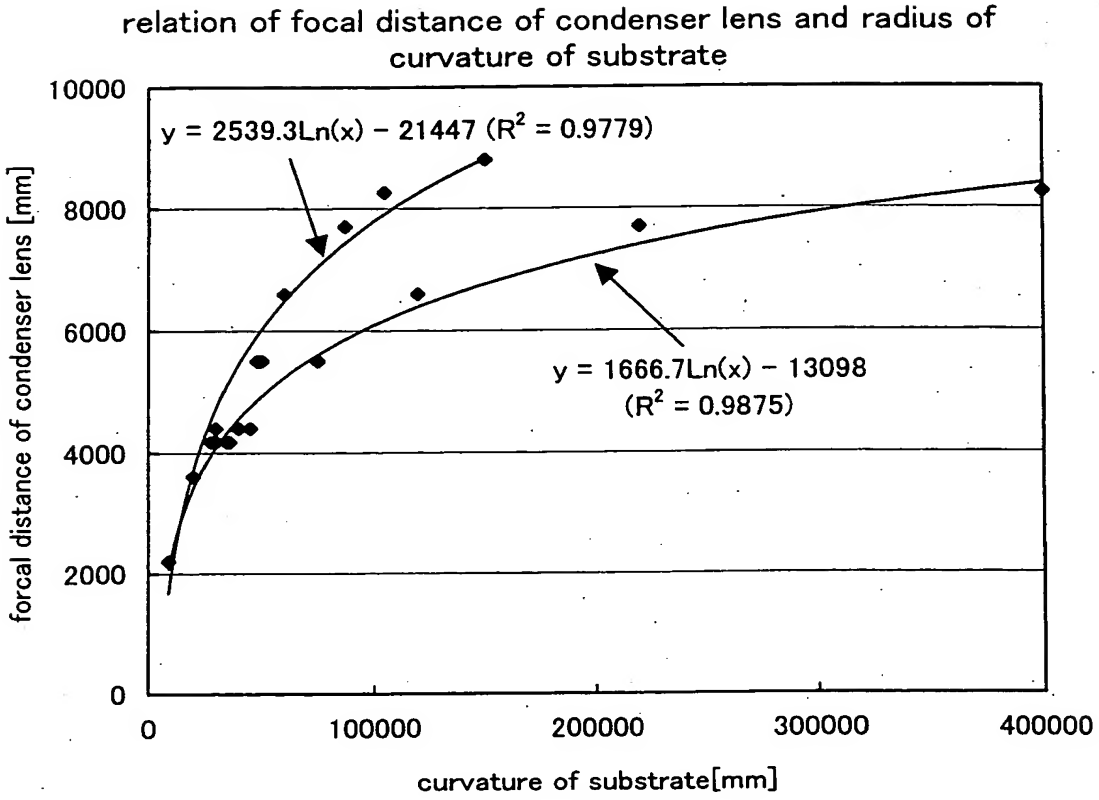

relation of focal distance of condenser lens and radius of curvature of substrate
y = 2539.3Ln(x) - 21447 (R2 = 0.9779)
y = 1666.7Ln(x) - 13098
(R2 = 0.9875)
forcal distance of condenser lens [mm]
curvature of substrate[mm]
10000
8000
6000
4000
2000
0
0
100000
200000
300000
400000

Fig. 9

Fig. 10A

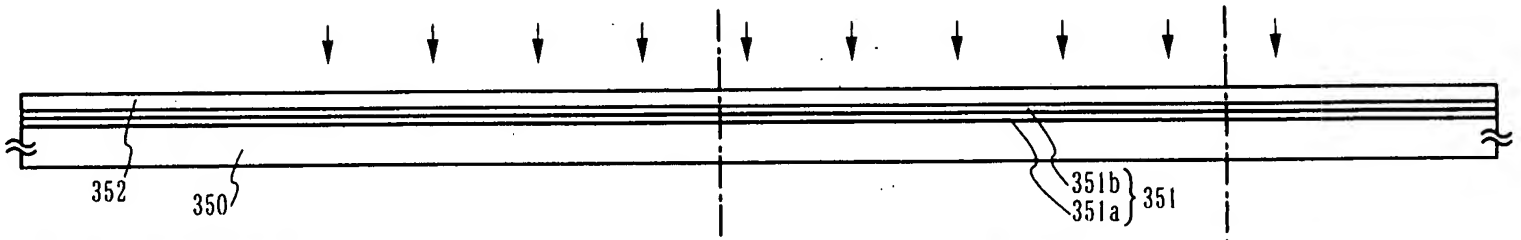


Fig. 10B

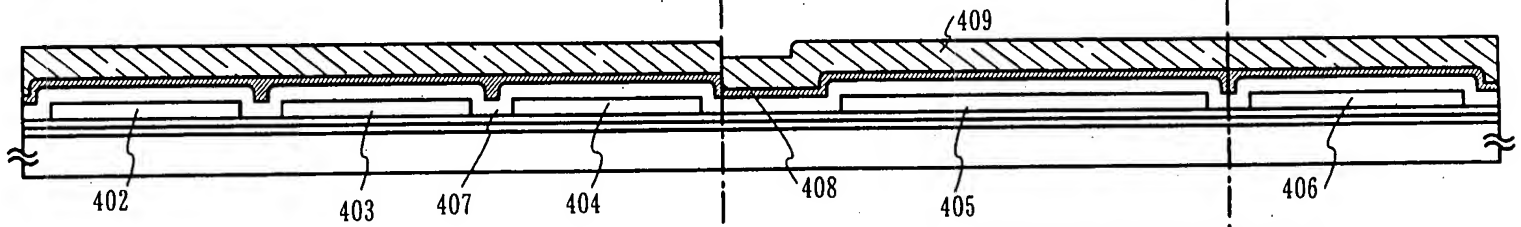


Fig. 10C

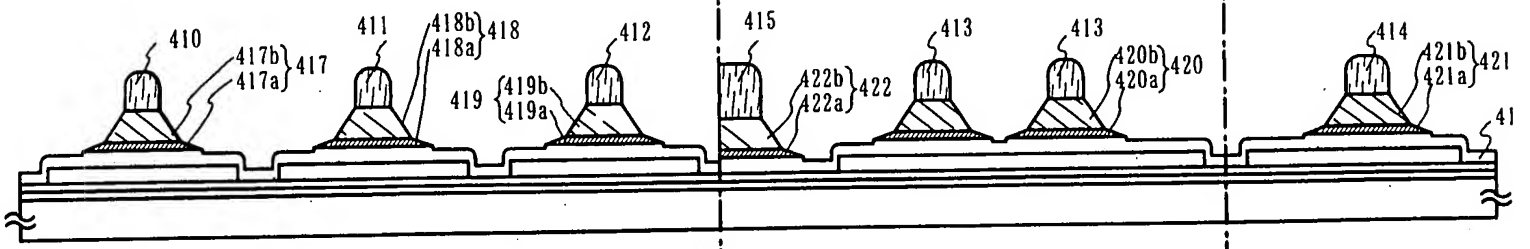


Fig. 10D

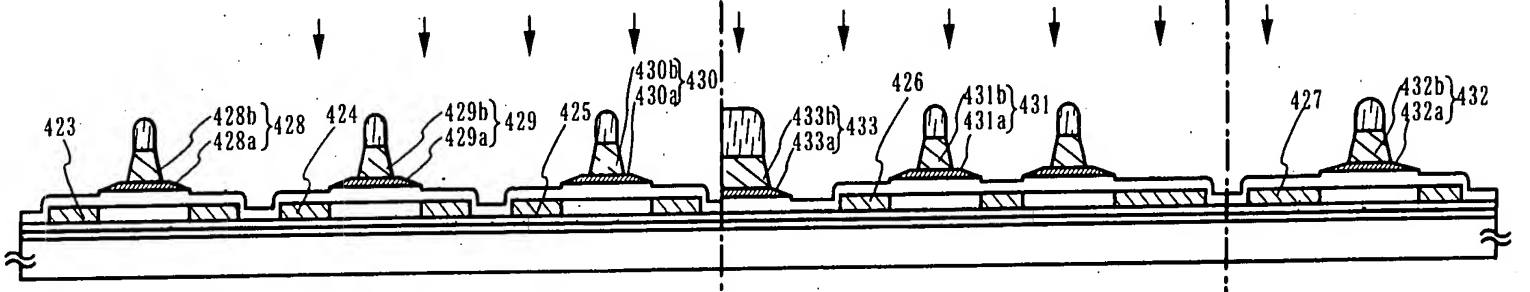


Fig. 11A

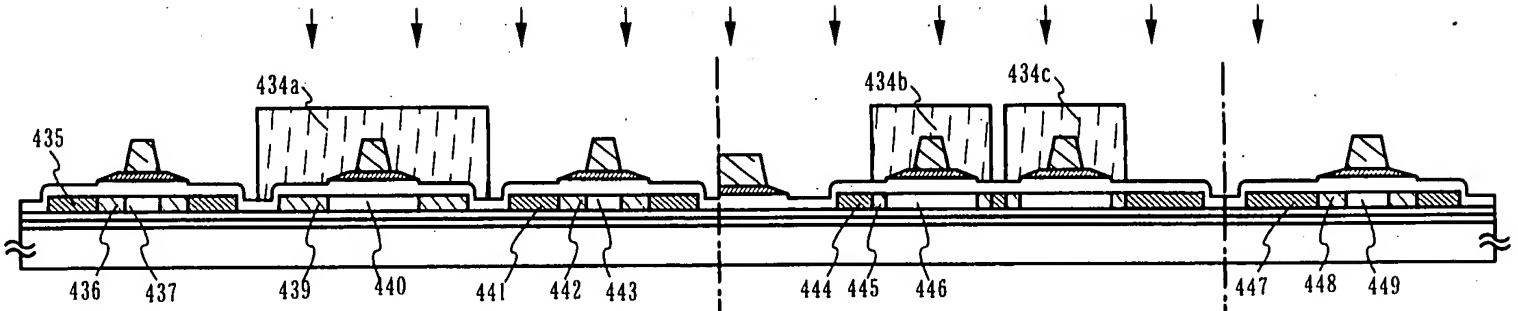


Fig. 11B

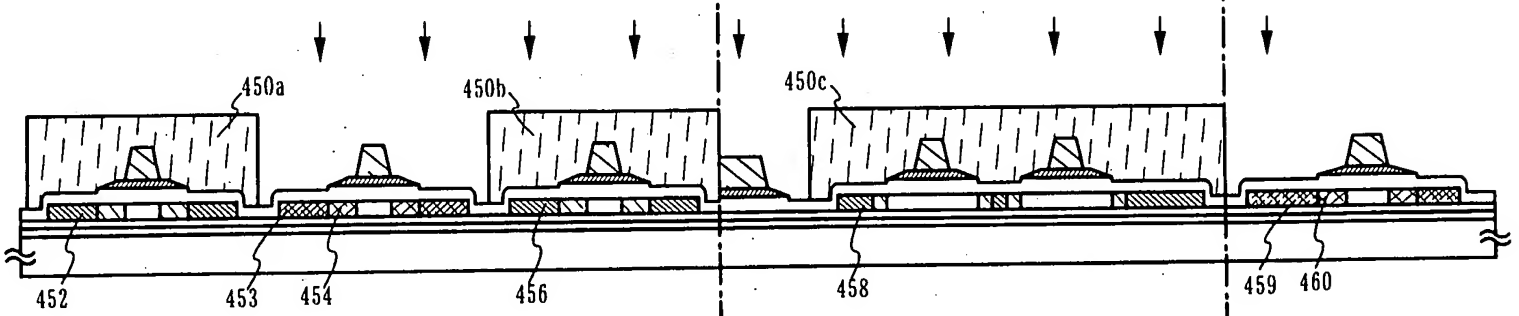
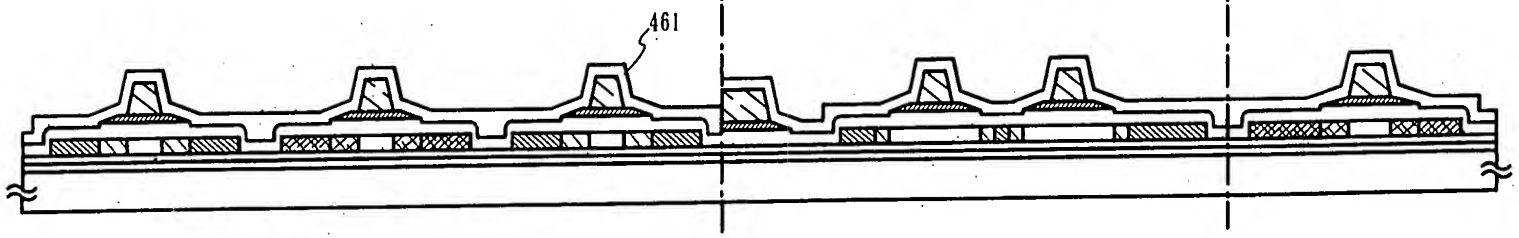


Fig. 11C



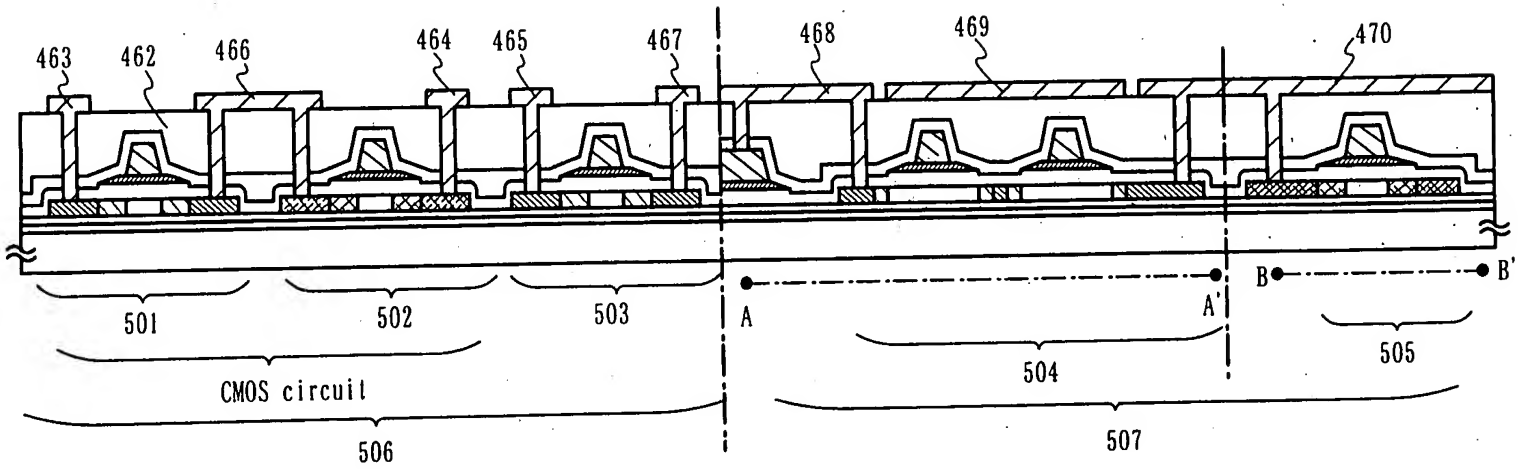

463
462
466
464
465
467
468
469
470
501
502
503
A
A'
B
B'
504
505
CMOS circuit
506
507

Fig. 12

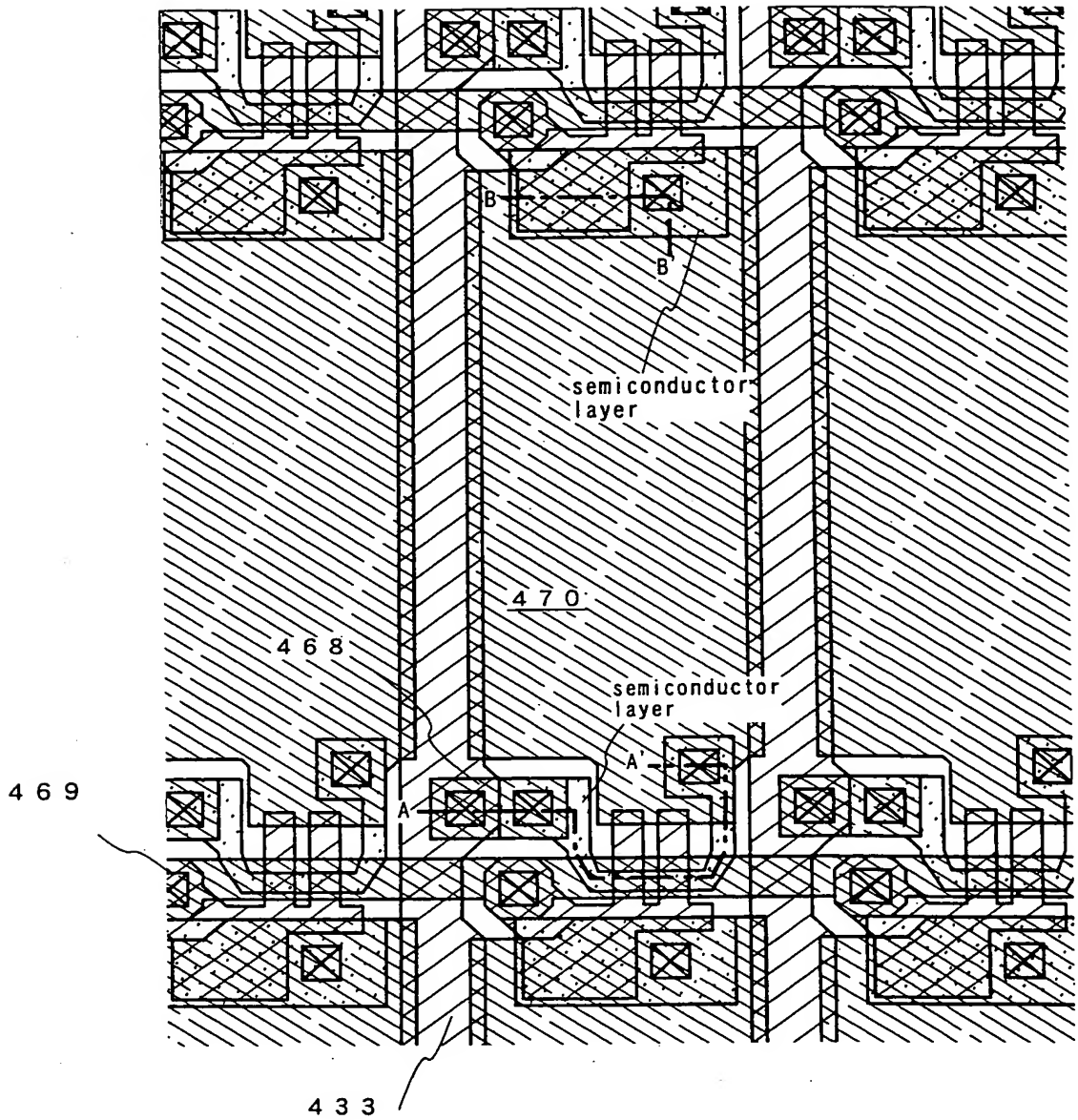

B
B'
semiconductor layer
470
468
semiconductor layer
A'
A
469
433

Fig. 13

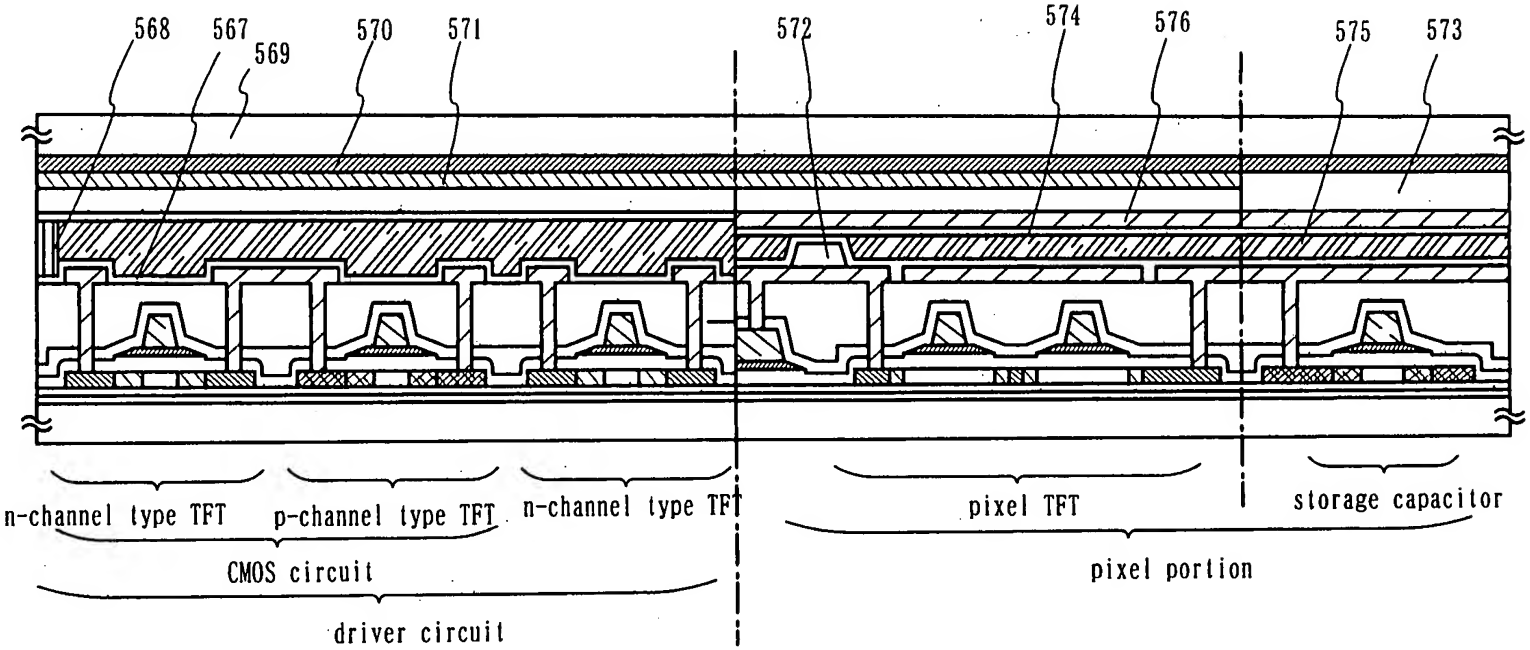

568
567
569
570
571
572
574
576
575
573
n-channel type TFT
p-channel type TFT
n-channel type TFT
pixel TFT
storage capacitor
CMOS circuit
pixel portion
driver circuit

Fig. 14

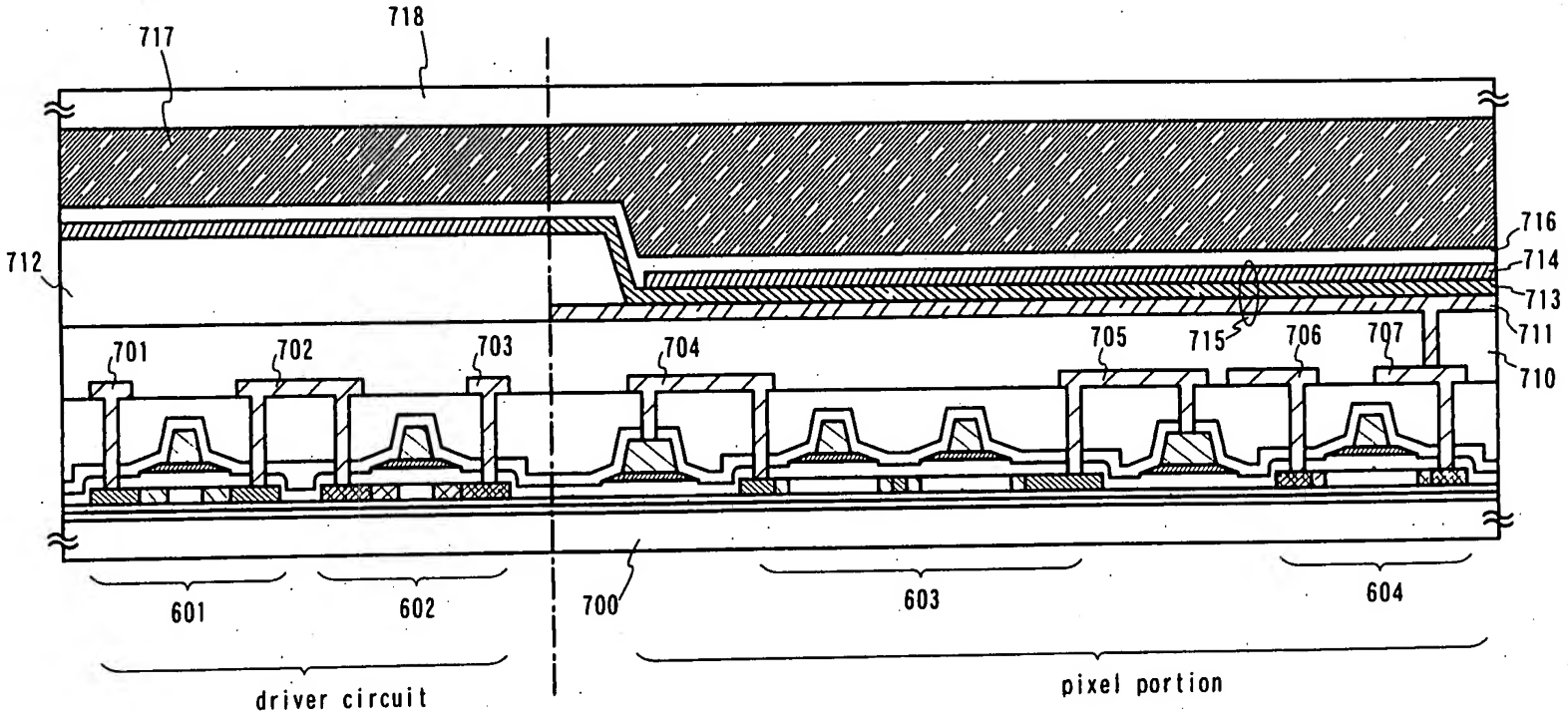

717
718
712
716
714
713
711
710
701
702
703
704
705
715
706
707
601
602
700
603
604
driver circuit
pixel portion

Fig. 15

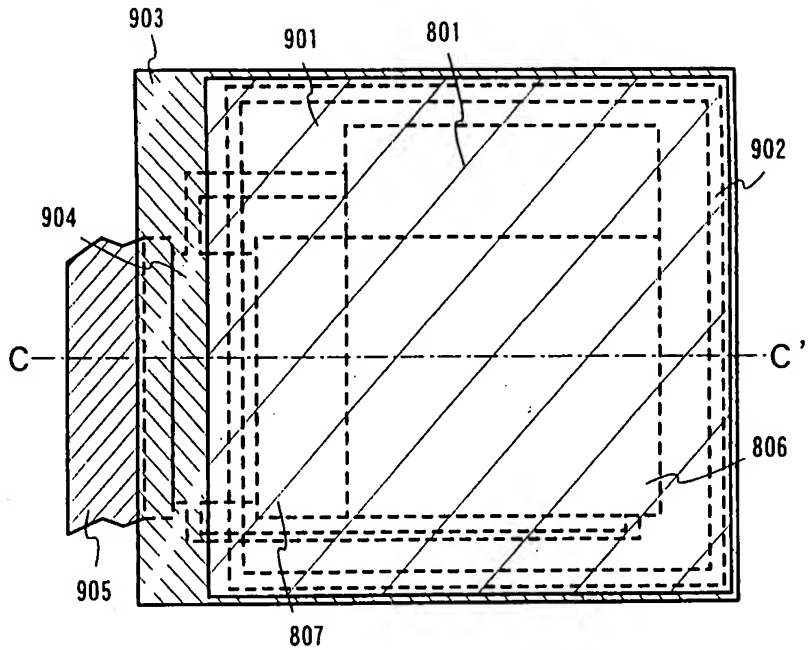


Fig. 16A

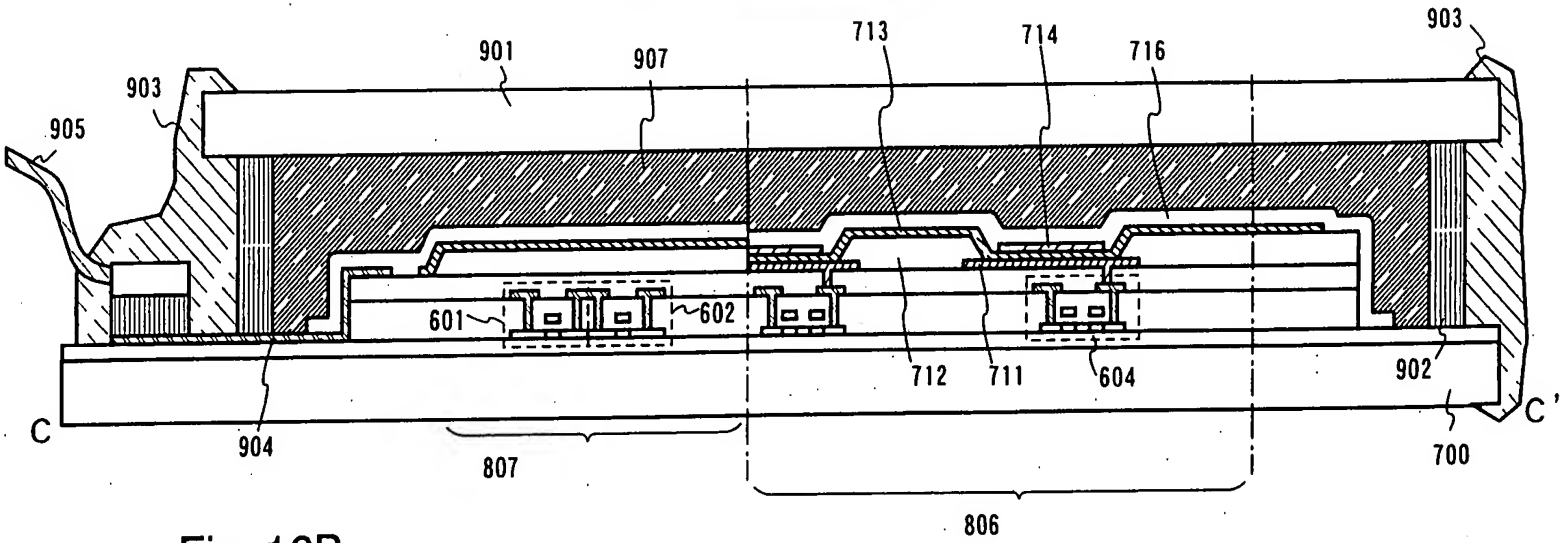


Fig. 16B

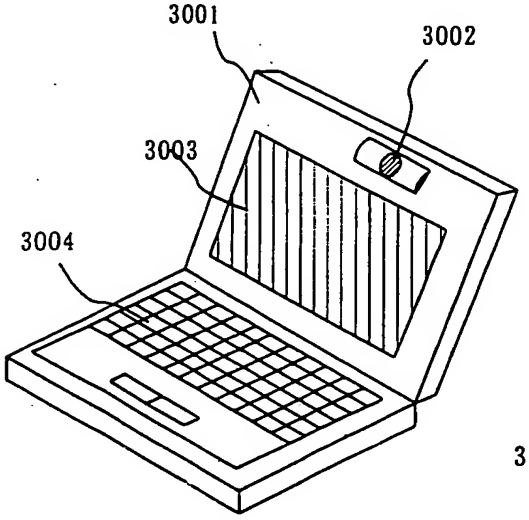


Fig. 17A

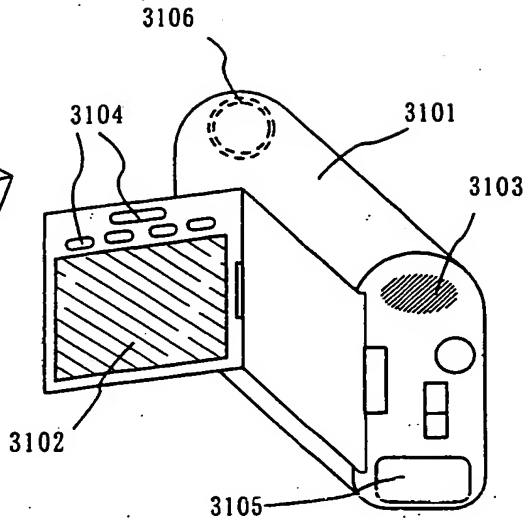


Fig. 17B

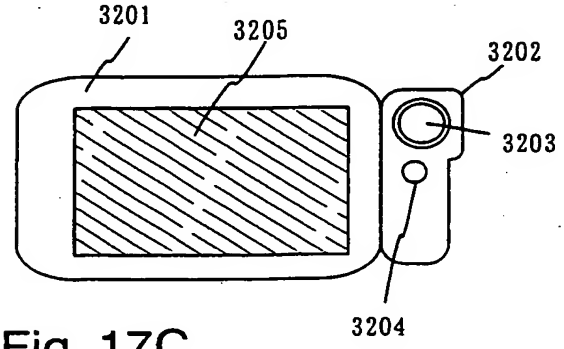


Fig. 17C

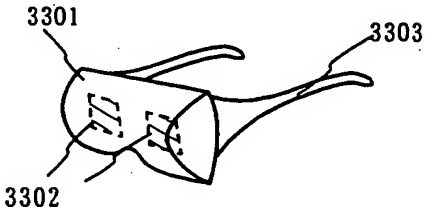


Fig. 17D

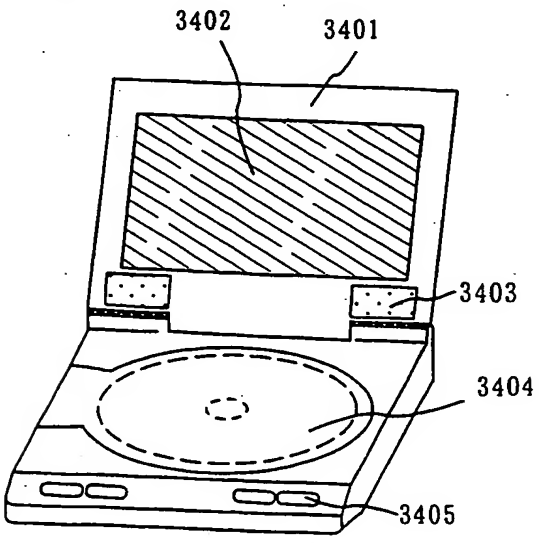


Fig. 17E

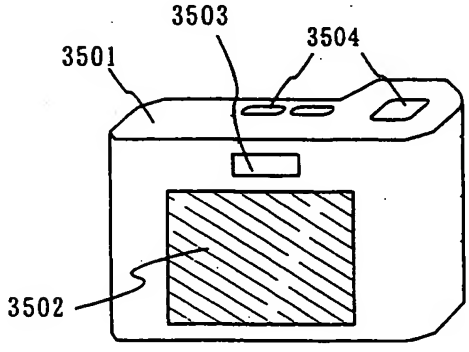


Fig. 17F

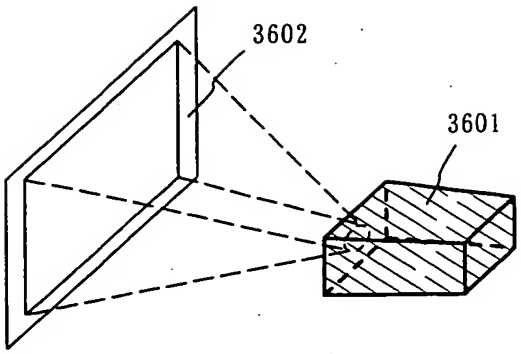


Fig. 18A

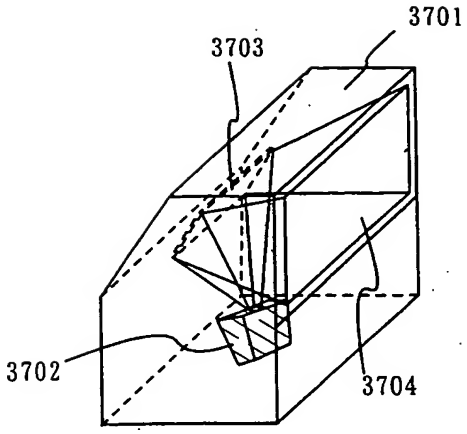


Fig. 18B

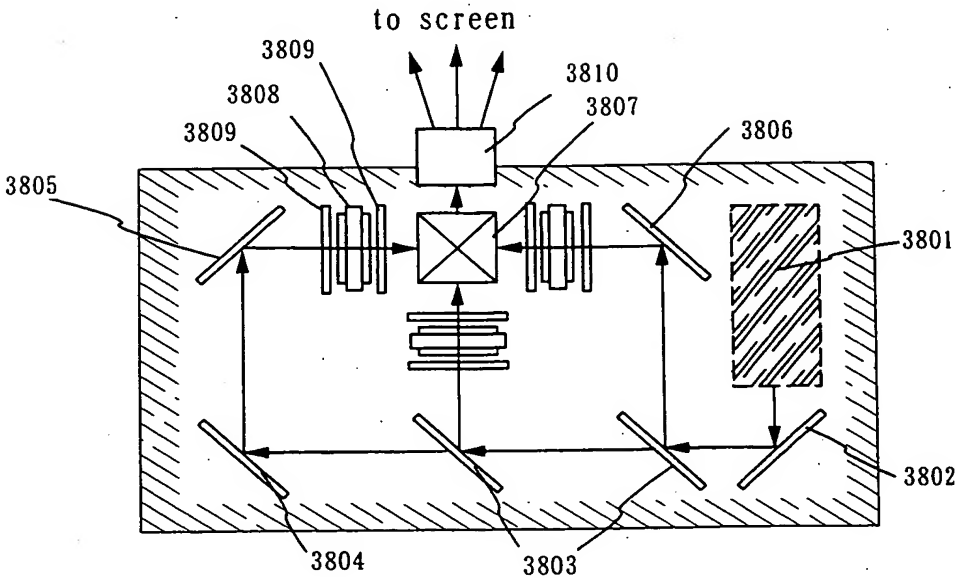


Fig. 18C

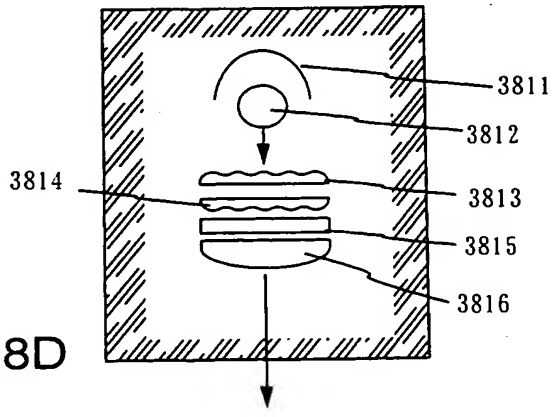


Fig. 18D

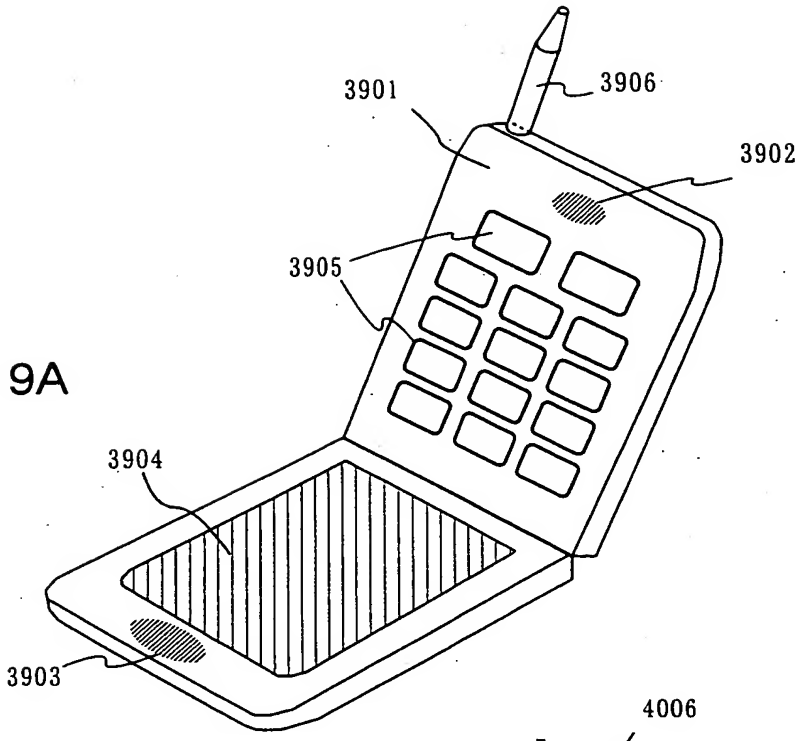


Fig. 19A

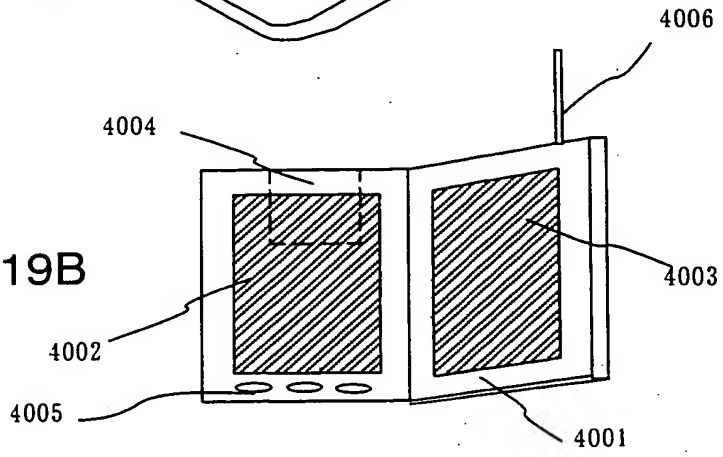


Fig. 19B

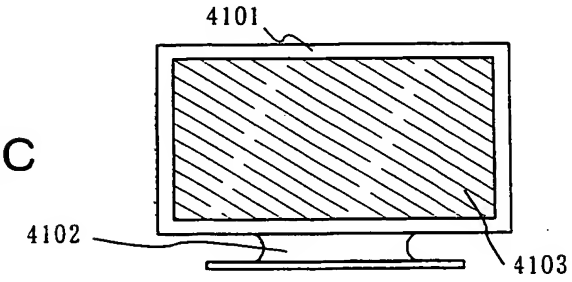


Fig. 19C

[Eq. 1]

$$L = d \cdot f2 / f1 \qquad (1)$$

[Eq. 2]

$$y = 2539.3 \ln(x) - 21447$$

[Eq. 3]

$$y = 1666.7 \ln(x) - 13098$$

Table 1

forcal distance of condeser lens [mm]	radius of curvature of substrate	
	minmum value	maxmum value
2200	9000 (optimum value)	
3600	20000 (optimum value)	
4180	28000	36000
4400	30000	45000
5500	48000	75000
6600	60000	120000
7700	87000	220000
8260	105000	400000
8800	150000	∞